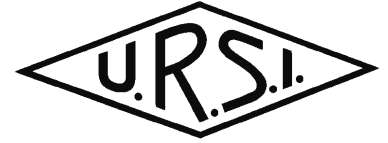


2004 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting



June 20-26, 2004
Monterey Doubletree and
Monterey Marriott Hotels
Monterey, CA
<http://aps2004.llnl.gov/>



Final Call for Papers

The 2004 IEEE International Symposium on Antennas and Propagation, sponsored by the IEEE Antennas and Propagation Society (AP-S), and the 2004 USNC/URSI (U.S. National Committee of the International Union of Radio Science) National Radio Science meeting, sponsored by USNC Commissions A, B, D, E, F, and K, will be held jointly on June 20-26, 2004 at the Monterey Doubletree and Monterey Marriott Hotels in Monterey, California. The technical sessions, workshops, and short courses will be coordinated between the two symposia to provide a comprehensive and well-balanced program. This meeting is intended to provide an international forum for the exchange of information on state-of-the-art research in antennas, propagation, and electromagnetic engineering.

Paper Submission: Authors addressing advancements and describing innovations in the fields of electromagnetics, antennas, wave propagation, and other topics of interest to AP-S and URSI are invited to submit contributions for review and possible presentation in the symposium. Suggested topics and general information are listed in this call. In addition to regularly scheduled sessions for oral and poster presentations, there will be a student paper competition as well as special sessions, workshops, and short courses that will address timely topics and state-of-the-art advancements in these fields.

AP-S General Topics

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|--|---|---|
| 1. Adaptive, active, and smart antennas | 13. Frequency-selective surfaces | 25. Propagation |
| 2. Analysis for multi-scale problem | 14. High frequency and Asymptotic methods | 26. Propagation in rough enclosures |
| 3. Biomedical applications | 15. Integral equation methods | 27. Radar imagery |
| 4. Broadband and multi-frequency antennas | 16. Inverse scattering | 28. Random media and rough surfaces |
| 5. Chaotic systems | 17. Microstrip antennas, arrays, and circuits | 29. Reconfigurable antennas and arrays |
| 6. Digital beamforming | 18. Mobile and PCS antennas | 30. Reflector antennas |
| 7. Electromagnetic education | 19. Monolithic array techniques | 31. Remote sensing |
| 8. Electromagnetic properties of materials | 20. Non-linear electromagnetics | 32. Scattering, diffraction, and RCS |
| 9. Electromagnetic theory | 21. Numerical methods | 33. Transients and time-domain techniques |
| 10. EM measurements | 22. Optimization methods in EM design | 34. Ultra wideband systems |
| 11. FEM methods | 23. Phased-array antennas | 35. Waveguiding structures |
| 12. FDTD methods | 24. Photonics in antenna systems | 36. Other topics |

Commission A Topics (Electromagnetic Metrology)

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|------------------------------------|---|--|
| A1. Quantum metrology and concepts | A5. Noise | A9. Impulse Radar |
| A2. Time and frequency | A6. Materials | A10. Planar structures and microstrip circuits |
| A3. Time-domain metrology | A7. Bioeffects and medical applications | A11. Interconnects and packaging |
| A4. EMC and EM pollution | A8. Antennas and EM-field metrology | A12. Microwave to sub-mm measurements |

Commission B Topics (Fields and Waves)

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| B1. Antennas | B3. Guided waves and wave guiding structures | B9. Rough surfaces and random media |
| B1.1. Antenna analysis and design | B4. High-frequency techniques | B10. Scattering |
| B1.2. Antennas for wireless communications | B5. Inverse scattering | B11. Theoretical electromagnetics |
| B1.3. Arrays | B6. Numerical methods: diff. eq. based | B12. Transient fields, effects, and systems |
| B1.4. Microstrip and printed antennas | B6.1. Frequency-domain methods | B13. Propagation/coupling in complex/confined environments (e.g., mines) |
| B1.5. Mechanical distortion effects in arrays and reflectors | B6.2. Time-domain methods | B14. Nonlinear electromagnetics |
| B2. Novel and complex media | B7. Numerical methods: int. eq. based | B15. Educational Methods and Tool |
| | B8. Numerical methods: hybrid/other tech. | |

Commission D Topics (Electronics and Photonics)

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|---|--|---|
| D1. Optoelectronic techniques and devices | D5. Microwave, mm-wave, and sub-mm-wave devices and circuits | D8. Vacuum microelectronics |
| D2. Cryogenic electronic devices and circuits | D6. High-speed devices and circuits | D9. RF and microwave application of MEMS |
| D3. Optical transmission and interconnection | D7. Mesoscale devices and associated materials | D10. EM field propagation in nanostructures |
| D4. PBG in photonics and mm-wave technology | | D11. Complex materials in electronics/photonics |

Commission E Topics (Electromagnetic Noise and Interference)

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|---|---|--|
| E1. High power electromagnetics | E3. Spectrum management and utilization | E4. Communication in the presence of noise |
| E2. Transients fields, effects, and systems | | |

Commission F Topics (Wave Propagation and Remote Sensing)

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|---|--|--|
| F1. Propagation modeling and measurement | F4. Mobile and personal access radio propagation | F6. Calibration and validation of satellite measurements |
| F2. Satellite and terrestrial propagation | F5. Remote sensing of oceans and atmosphere | |
| F3. Point to point propagation effects | | |

Commission K Topics (Electromagnetics in Biology and Medicine)

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|-----------------------------|-------------------------|-----------------------------------|
| K1. Biological effects | K3. Dosimetry | K5. Application of RF to medicine |
| K2. Biomedical applications | K4. Exposure assessment | |

Instructions for AP-S and URSI Authors

Manuscript Preparation: The language of the symposium is English. The text should be formatted single-spaced and sized for 21.5 × 28 cm (8.5 × 11 inch) paper. The title should be centered 1 inch from the top of the first page. The author's (or authors') name and complete organizational affiliation should be two lines below the title. If there are multiple authors, the presenter is to be specified with an asterisk. The text should start three lines below the last name. Left- and right-hand margins should be 4 cm (1.5 inches). A 2.5 cm (1 inch) margin should be at the top and bottom of all pages. Paragraphs are to be separated with one blank line. Submissions must withstand a linear reduction to 70% of original size and maintain readability. Only the author that submits the paper will receive an acknowledgement of the submission.

Paper Submission: ONLY ELECTRONIC SUBMISSIONS IN PDF FORMAT WILL BE ACCEPTED. For details on electronic submission, please refer to the symposium Web site. Please read the information concerning fonts before submitting a paper, otherwise the paper may be rejected.

Additional instructions for AP-S Authors

The paper must be limited to four pages including text, references, and figures. The introduction should indicate clearly how the submission relates to previous work and the unique aspects of the current submission. Footnotes should not be used except for credits to sponsoring agencies. **A signed IEEE copyright form is necessary with all AP-S submissions and can be either faxed or sent by mail (see Submission Address on next page).** The contact information to use is in the submission address information listed in this call. Copyright forms are in recent issues of the IEEE Transactions on Antennas

and Propagation and at IEEE’s Web site (<http://www.ieee.org/about/documentation/copyright/>). Missing copyright forms will make it necessary to reject the paper. It will be understood that all submissions have been cleared by the sponsoring agency.

Additional instructions for URSI Authors

The abstract must consist of at least 250 words and must be limited to one page, including figures. Do not include a list of references. However, a few open-literature references may be included parenthetically, for example: (R. L. Lewis and J. R. Johler, Radio Sci., 2, 75-81, 1976). Acknowledgement of financial support is not deemed appropriate. Also, please identify the Commission and session topic for the paper and provide brief statements of what new knowledge is contributed by the paper and the relationship of the work to previous work.

AP-S Student Paper Competition

To be considered, a student must be the first author of the paper. The student’s advisor should attach a statement that his/her contribution is primarily advisory. In addition, the transmittal letter should clearly indicate “student paper submission” and conform to all other submission requirements and instructions for authors as described in this call. Additional information may be obtained from the symposium Web site.

Submission Address and Deadline: All paper and abstract submissions must be received in PDF format via the symposium Web site by January 16, 2004. Address all AP-S and URSI correspondence, including inquiries concerning papers, abstracts, and the technical program, and copyright forms to:

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**DEADLINE FOR RECEIPT
January 16, 2004**

Special Sessions: The call for special sessions will remain open until November 15, 2003. After this date, no more suggestions for special sessions will be accepted. In addition, all speakers for the special sessions must be confirmed by December 1, 2003. The associated papers and abstracts will be due on January 16, 2004. A list of special sessions will be posted on the symposium Web site in December 2003. For more information, please contact Brian Grant as listed under Special Sessions.

Exhibits: Industrial exhibits will be open June 21-23, 2004. If you wish to erect an exhibit, please contact Jian-X. Zheng as listed under Exhibitors.

Short Courses/Workshops: Individuals desiring to organize a short course or workshop should contact the appropriate chair.

Updates: Updated information will be posted on the conference Web site as appropriate.

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